



COUNTY OF LOS ANGELES FIRE DEPARTMENT

FIRE PREVENTION DIVISION

AEROSOL PRODUCTS PERMIT REQUIREMENTS

Appendix Chapter 1, section 105 of the Los Angeles County Fire Code states that permits required by the Fire Code shall be obtained from the fire code official. A permit is required to manufacture, store or handle an aggregate quantity of Level 2 or Level 3 aerosol products in excess of 500 pounds (227 kg) net weight. See Chapter 28. Additional requirements may be applicable.

The manufacturing, storage and display of aerosol products shall also comply with Chapter 27, Hazardous Materials, the Los Angeles Building Code and NFPA 30B.

Aerosol products shall be classified by means of the calculation of their chemical heats of combustion and shall be designated Level 1, Level 2 or Level 3.

Level 1 aerosol products. Those with a total chemical heat of combustion that is less than or equal to 8,600 British thermal units per pound (Btu/lb) (20 kJ/g).

Level 2 aerosol products. Those with a total chemical heat of combustion that is greater than 8,600 Btu/lb (20 kJ/g), but less than or equal to 13,000 Btu/lb (30 kJ/g).

Level 3 aerosol products. Those with a total chemical heat of combustion that is greater than 13,000 Btu/lb (30 kJ/g).

Material Safety Data Sheets. Material Safety Data Sheet (MSDS) information for aerosol products displayed shall be kept on the premises at an approved location.

Identification. Cartons shall be identified on at least one side with the classification level of the aerosol products contained within the carton as follows:
"LEVEL _____ AEROSOLS"

INDOOR STORAGE

Level 1 aerosol products shall be considered equivalent to a Class III commodity and shall comply with the requirements for palletized or rack storage in NFPA 13.

Storage in Groups A, B, E, F, I and R. Storage of Level 2 and 3 aerosol products in occupancies in Groups A, B, E, F, I and R shall be limited to the following maximum quantities:

1. A net weight of 1,000 pounds (454 kg) of Level 2 aerosol products.
 2. A net weight of 500 pounds (227 kg) of Level 3 aerosol products.
 3. A combined net weight of 1,000 pounds (454 kg) of Level 2 and 3 aerosol products.
- The maximum quantity shall be increased 100 percent where the excess quantity is stored in storage cabinets in accordance with Section 3404.3.2.

Excess storage. Storage of quantities exceeding the maximum quantities indicated in Section 2804.2 shall be stored in separate inside flammable liquid storage rooms in accordance with Section 2804.5.

Storage in general purpose warehouses. Aerosol storage in general purpose warehouses utilized only for warehousing-type operations involving mixed commodities shall comply with Section 2804.3.1 or 2804.3.2.

Storage in aerosol warehouses. The total quantity of Level 2 and 3 aerosol products in a warehouse utilized for the storage, shipping and receiving of aerosol products shall not be restricted in structures complying with Sections 2804.4.1 through 2804.4.4.

Storage in inside flammable liquid storage rooms. Inside flammable liquid storage rooms shall comply with Section 3404.3.7. The maximum quantities of aerosol products shall comply with Section 2804.5.1 or 2804.5.2.

Storage in liquid warehouses. The storage of Level 2 and 3 aerosol products in liquid warehouses shall comply with NFPA30B. The storage shall be located within segregated storage areas in accordance with Section 2804.3.2 and Sections 2804.6.1 through 2804.6.3.

Storage in Group M occupancies. Storage of Level 2 and 3 aerosol products in occupancies in Group M shall comply with Table 2804.7. Retail display shall comply with Section 2806.

OUTSIDE STORAGE

Distance from exposures for Level 2 and 3 aerosol products.

<u>Exposure</u>	<u>Minimum separation distance</u>
Public alleys, public ways, public streets, lot lines	20 feet
Buildings, exit discharge, other outside storage	50 feet

RETAIL DISPLAY

Maximum quantities in retail display areas. Aerosol products in retail display areas shall not exceed quantities needed for display and normal merchandising and shall not exceed the quantities in Table 2806.2.1.

Display of containers. Level 2 and 3 aerosol containers shall not be stacked more than 6 feet (1829 mm) high from the base of the aerosol array to the top of the aerosol array unless the containers are placed on fixed shelving or otherwise secured in an approved manner. When storage or retail display is on shelves, the height of such storage or retail display to the top of aerosol containers shall not exceed 8 feet (2438 mm).

Combustible cartons. Aerosol products located in retail display areas shall be removed from combustible cartons (some exceptions apply).

Retail display automatic sprinkler system. When an automatic sprinkler system is required for the protected retail display of aerosol products, the wet-pipe automatic sprinkler system shall be in accordance with Section 903.3.1.1. The minimum system design shall be for an Ordinary Hazard Group 2 occupancy. The system shall be provided throughout the retail display area.

Automatic sprinkler protection for aerosol display and merchandising exceeding 8 feet. Aerosol display and merchandising areas shall be protected by an automatic sprinkler system based on the requirements set forth in Tables 6.3.2.7(a) through 6.3.2.7(l) of NFPA 30B and those found in Section 2806.3.2.

Separation of Level 2 and 3 aerosol areas for aerosol display and merchandising exceeding 8 feet. Separation of Level 2 and 3 aerosol areas shall comply with Section 2806.3.3.

Maximum quantities in storage areas. Aerosol products in storage areas adjacent to retail display areas shall not exceed the quantities in Table 2806.4.

Special protection design for Level 2 and 3 aerosols adjacent to flammable and combustible liquids in double-row racks. The display and merchandising of Level 2 and 3 aerosols adjacent to flammable and combustible liquids in double-row racks shall be in accordance with Sections 2806.5.1 through 2806.5.8 or Section 2806.3.3.

MANUFACTURING FACILITIES

General. Manufacturing facilities shall be in accordance with NFPA 30B.

Additional
Requirements _____
Rev.01/09